

**From:** Judith Hykel/R3/USEPA/US  
**Sent:** 2/9/2010 10:37:12 AM  
  
**To:** Humane Zia/R3/USEPA/US@EPA; Karen Melvin/R3/USEPA/US@EPA; Gerald Heston/R3/USEPA/US@EPA; Mark Bolender/R3/USEPA/US@EPA  
**CC:**  
**Subject:** Fw: Flowback radiation levels

Judy  
(215) 814-2646  
----- Forwarded by Judith Hykel/R3/USEPA/US on 02/09/2010 10:35 AM -----

**Angela McFadden/R3/USEPA/US**  
02/09/2010 09:54 AM  
  
To: Martin Schwartz/R3/USEPA/US@EPA, Judith Hykel/R3/USEPA/US@EPA  
cc: David Dillon/R3/USEPA/US@EPA, Chris Spangenberg/R3/USEPA/US, "Amy Bergdale" <Bergdale.Amy@epamail.epa.gov>  
Subject: Re: Flowback radiation levels

Ex. 7(e)

Angela McFadden  
U.S. EPA Region 3  
Water Protection Division  
1650 Arch Street (3WP00)  
Philadelphia, PA 19103  
  
215-287-7823 cell  
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----- Original Message -----  
**From:** Martin Schwartz  
**Sent:** 02/09/2010 09:28 AM EST  
**To:** Angela McFadden; Judith Hykel  
**Cc:** David Dillon; Chris Spangenberg  
**Subject:** Flowback radiation levels

These are comments from one of the teachers here at school re; wells in Dimock. He has a Phd in biochemistry and physics from the University of Chicago, one of the most outstanding schools in the country/.

These levels are off the friggin charts. Acceptable levels are way lower. This website explains things very nicely.

<http://healthvermont.gov/enviro/rad/alpha.aspx>

As part of the DEP permit application for the proposed Water Treatment Plant in Eaton Township, Wyoming ( flowback fluids from Dimock gas wells were analyzed by Quantum Analytical and Environmental Laboratorie

This is what was found;

Lewis 1 Well  
sample taken 8/24/08

Gross Alpha 223.3 pCi/L  
Gross Beta 309.2 pCi/L  
Radium 226 69.63 pCi/L  
radium 228 18.55 pCi/L

Lewis 2 Well  
sample taken 8/24/08

Gross Alpha 159.9 pCi/L  
Gross Beta 210.3 pCi/L  
Radium 226 69.32 pCi/L  
Radium 228 9.64 pCi/L

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